CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP.

01st December 2016

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the Materials supplied by you, for the work of **'Improvements to Roads & Drains at Kallappa layout and surrounding Areas in ward. 10, Vidyaranyapura Sub Division..'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AEE (VRP) SD

Jadha
AE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 40mm ↓ Graded

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Kallappa layout and surrounding Areas in ward. 10, Vidyaranyapura Sub Division.
Name of Agency	Sri. A. Gangulureddy
Date of Testing	01/12/2016
Specific Gravity	**2.67**
Water Absorption	**0.29%**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	**Sieve Analysis (% Passing IS Sieve)**	**Grading Requirement as per IS:383-1970 (Reaffirmed 2011)**	**Remarks**
80	**100**	100	**Satisfies the requirement**
40	**98.9**	95-100	
20	**55.3**	30-70	
10	**26.2**	10-35	
4.75	**3.5**	0-5	

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

Jadhao
AE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Kallappa layout and surrounding Areas in ward. 10, Vidyaranyapura Sub Division.
Name of Agency	Sri. A. Gangulureddy
Date of Testing	01/12/2016
Specific Gravity	**2.56**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
River Sand	10	**100**	100	100	100	100	II	Satisfies the requirement
	4.75	**99.2**	90-100	90-100	90-100	95-100		
	2.36	**88.4**	60-95	75-100	85-100	95-100		
	1.18	**76.3**	30-70	55-90	75-100	90-100		
	0.6	**49.2**	15-34	35-59	60-79	80-100		
	0.3	**26.3**	5-20	8-30	12-40	15-50		
	0.15	**8.2**	0-10	0-10	0-10	0-15		

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Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

Boodha
AE

CIVIL TECH LABS
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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Kallappa layout and surrounding Areas in ward. 10, Vidyaranyapura Sub Division.
Name of the Agency	Sri. A. Gangulureddy
Date of Testing	01/12/2016

Tests	**Test Method As Per IS & Apparatus**		**Results**		**Requirements As Per IS 8112:1989**	**Remarks**
	IS Code	**Method**	**Value**	**Unit**		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	48	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	486	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

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CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

Sudha
AE

CIVIL TECH LABS

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 10mm

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Kallappa layout and surrounding Areas in ward. 10, Vidyaranyapura Sub Division.
Name of the Agency	Sri. A. Gangulureddy
Date of Testing	01/12/2016
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	13.5	12	Satisfactory
5	Yield Stress(N/Sq.mm)	509	500	Satisfactory
6	U T S (N/Sq.mm)	565	545	Satisfactory

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4. The results are based on the test conducted on samples supplied by the client.

Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

Radha
AE

CIVIL TECH LABS

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5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP.

05th January 2017

Dear Sir,

Sub: Improvements to Roads & Drains at Kallappa layout and surrounding Areas in ward. 10, Vidyaranyapura Sub Division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AEE (VRP) SD

Radha
AE

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Kallappa layout and surrounding Areas in ward. 10, Vidyaranyapura Sub Division.
Name of Agency	Sri. A. Gangulureddy
Grade of Concrete	M-15
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.02 X 150.06 X 150.0	22512	08/12/2016	05/01/2017	28	8.17	350	**15.56**	**15.76**
2		150.08 X 150.07 X 150.0	22523				8.19	354	**15.73**	
3		150.06 X 150.09 X 150.0	22523				8.22	360	**16.00**	

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH L... BANGALORE

Jadhav
AE

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Kallappa layout and surrounding Areas in ward. 10, Vidyaranyapura Sub Division.
Name of Agency	Sri. A. Gangulureddy
Grade of Concrete	M-15
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.03 X 150.05 X 150.0	22512	08/12/2016	05/01/2017	28	8.18	352	**15.64**	**15.73**
2		150.08 X 150.02 X 150.0	22515				8.20	354	**15.73**	
3		150.06 X 150.09 X 150.0	22523				8.21	356	**15.82**	

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Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

Jodha
AE

CIVIL TECH LABS

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5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP.

16th January 2017

Dear Sir,

Sub: Improvements to Roads & Drains at Kallappa layout and surrounding Areas in ward. 10, Vidyaranyapura Sub Division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AEE (VRP) SD

Jodha
AE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Kallappa layout and surrounding Areas in ward. 10, Vidyaranyapura Sub Division.
Name of Agency	Sri. A. Gangulureddy
Grade of Concrete	M-20
Location	Covering slab of Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	CC-Work	150.03 X 150.05 X 150.0	22512	19/12/2016	16/01/2017	28	8.18	495	**22.00**	**22.44**
2		150.06 X 150.04 X 150.0	22515				8.19	505	**22.44**	
3		150.05 X 150.06 X 150.0	22517				8.22	515	**22.89**	

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Khushboo

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CIVIL TECH LABS BANGALORE

Jadhav
AE

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5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP,

24th January 2017

Dear Sir,

Sub: Improvements to Roads & Drains at Kallappa layout and surrounding Areas in ward. 10, Vidyaranyapura Sub Division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE-10 Soorenda

AEE (VRP) SD

Sudha
AE

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Kallappa layout and surrounding Areas in ward. 10, Vidyaranyapura Sub Division.
Name of Agency	Sri. A. Gangulureddy
Grade of Concrete	M-20
Location	Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.03 X 150.05 X 150.0	22512	27/12/2016	24/01/2017	28	8.15	485	**21.56**	**21.85**
2		150.08 X 150.05 X 150.0	22520				8.18	490	**21.78**	
3		150.04 X 150.06 X 150.0	22515				8.20	500	**22.22**	

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Khushboo L

(KHUSHBOO L)
Quality Manager

CIVIL TECH LABS BANGALORE

Jeetha
AE

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Kallappa layout and surrounding Areas in ward. 10, Vidyaranyapura Sub Division.
Name of Agency	Sri. A. Gangulureddy
Grade of Concrete	M-20
Location	Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.04 X 150.03 X 150.0	22511	27/12/2016	24/01/2017	28	8.16	495	**22.00**	**22.22**
2		150.06 X 150.05 X 150.0	22517				8.17	500	**22.22**	
3		150.05 X 150.07 X 150.0	22518				8.19	505	**22.44**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Kallappa layout and surrounding Areas in ward. 10, Vidyaranyapura Sub Division.
Name of Agency	Sri. A. Gangulureddy
Grade of Concrete	M-20
Location	Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-3	150.07 X 150.08 X 150.0	22523	27/12/2016	24/01/2017	28	8.17	500	**22.22**	**22.44**
2		150.06 X 150.05 X 150.0	22517				8.19	505	**22.44**	
3		150.07 X 150.08 X 150.0	22523				8.20	510	**22.67**	

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Zadha
AE

Khushboo
(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Kallappa layout and surrounding Areas in ward. 10, Vidyaranyapura Sub Division.
Name of Agency	Sri. A. Gangulureddy
Grade of Concrete	M-20
Location	Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-4	150.03 X 150.04 X 150.0	22511	27/12/2016	24/01/2017	28	8.16	490	**21.78**	**22.22**
2		150.06 X 150.05 X 150.0	22517				8.17	500	**22.22**	
3		150.07 X 150.06 X 150.0	22520				8.18	510	**22.67**	

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Jadhav
AE

Khushboo
CIVIL TECH LABS BANGALORE
(KHUSHBOO L.J
Quality Manager

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains at Kallappa layout and surrounding Areas in ward. 10, Vidyaranyapura Sub Division.
Name of Agency	Sri. A. Gangulureddy
Grade of Concrete	M-20
Location	Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-5	150.04 X 150.04 X 150.0	22512	27/12/2016	24/01/2017	28	8.20	500	**22.22**	**22.59**
2		150.06 X 150.05 X 150.0	22517				8.21	510	**22.67**	
3		150.05 X 150.06 X 150.0	22517				8.23	515	**22.89**	

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Sadha
AE

(KHUSHBOO L.)
Quality Manager